

The NIC Plus

The Digital Lightwave NIC Plus Network Information Computer is a scalable solution for verifying and qualifying the performance of today's multiprotocol global communications networks.

The Digital Lightwave NIC Plus® Network Information Computer® is the most compact and cost-effective DS0/64K through OC-192/STM-64—including G.709 OTN (OTU 1 and OTU 2), GigE, ATM, POS, and OSA—diagnostic platform on the market.

With a flexible software/firmware-based architecture, the scalable NIC Plus combines in a single platform the multitude of traditional hardware-based test sets required to install, maintain, and monitor high-speed multi-protocol networks. The NIC Plus is designed to grow as your network grows, and as technologies change.

An intuitive touch-sensitive GUI enables technicians of any experience level to effectively operate the NIC Plus, minimizing training costs. The NIC Plus is fully compatible with the entire NIC product line.

The NIC Plus can also be configured with the new single-board optical multirate modules, providing

equipment manufacturers and service providers with a cost-effective, high-speed, high-density solution for OTN—as well as 10G and 2.5G interfaces—in a single portable platform.

Combining innovative features, functionality, performance and scalability into a lightweight portable unit suitable for global networks, the NIC Plus is the most versatile testing platform available today.



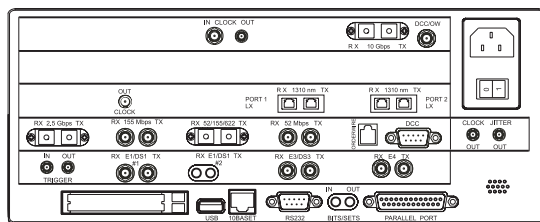
Network Information Computer (NIC Plus)

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The Network Information Computer product family is a comprehensive line of portable analyzers used during the design, manufacture, installation, and maintenance of global fiber-optic networks, including G.709 OTN (OTU 1 and OTU 2), SONET/SDH, DWDM/OSA, GigE, ATM, POS, Jitter, and T/E-Carrier.

Major Features:

- Simultaneous and independent testing of SONET/SDH, T-Carrier, PDH, ATM and POS. Separate protocol processors for PDH (DS1/E1, DS3/E3, E4), ATM and SONET/SDH (OC-1/STM-0 through OC-192/STM-64)
- Internal DS1/DS3 and E1/E3 drop/insert from SONET/SDH, built-in M13/E13
- 10.7 Gbps OTU 2 analysis, 2.67 Gbps OTU 1 analysis (optional)
- FEC code RS (255/239)
- OC-192/STM-64 through-mode with overhead manipulation
- OC-192/STM-64 1310 or 1550 nm
- OC-48/STM-16 1310 nm, 1550 nm or switchable wavelength laser option
- Packet over SONET/SDH (POS) for 10G rates (optional)
- C and L band optical spectrum analysis module (optional)
- Independent dual-port (SX, LX) GigE module (optional)
- OC-192/STM-64 to STS-1/STM-0 mapping (optional)
- 10 Gbps optical quad receiver technology for high-density multiport configurations (optional)
- STM-0 through STM-4 jitter capability (optional)
- STM-0 through STM-4 ATM capabilities (optional)
- Round-trip delay measurement capabilities at optical rates
- Support for AAL0, AAL1, AAL5, traffic shaping, PVC/SVC, OAM, QoS measurements, HEC error generation
- Tandem connection monitoring (TCM), automatic protection switching (APS), and STS/AU pointer sequencing
- Alarm/error generation and analysis
- Auto configuration to pattern level
- Trouble scan
- Built-in optical power and frequency measurement
- A 12.1-inch active matrix color display with touch screen
- Dual slot PCMCIA interface
- Remote control GUI
- Software/firmware upgradeable via Web
- SCPI over GPIB, TCP/IP, or RS-232c
- Graphical switch matrix; graphical results
- Multiple slots for future expansion
- Available in over 50 configurations



Connector Panel*

General Specifications

Operating Temperature: 0° to 40° C @ 85% RH
 Storage Temperature: -20° to 60° C @ 95% RH
 Power Requirements: 100 to 120 and 200 to 240 V AC, 50-60 Hz
 Dimensions: 13.7 H x 13.0 W x 7.9 D in (348 x 330 x 201 mm)
 Weight: 14.5 - 25 lb, depending on configuration

Auxiliary Interfaces

RS-232 Async: DB-9	BITS/SETS Clock: Bantam
Parallel Port: DB-25	PCMCIA: Dual Slot: 2-Type II or 1-Type III
USB	802.11B: Wireless LAN PCMCIA Support
Input/Output Trigger: SMA	10 BaseT: RJ-45
10G Clock Out	10 BaseT: RJ-45
Orderwire: Handset jack (A-law)	DCC: RS-499, DB-15 pin
2.5G Clock Out	

Ordering Information

For complete feature availability, ordering and pricing information, call your Digital Lightwave sales representative at +1 727 442 6677 or visit our Web site at www.lightwave.com.

*Example configuration. Specifications are subject to change without notice.



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Digital Lightwave provides industry-leading products, technologies, and services for deploying and managing communications networks. With a presence in more than 80 countries, Digital Lightwave enables customers to successfully implement global communications networks worldwide. To find the nearest sales office, please visit www.lightwave.com.

